IN THE ABSTRACT:

Please DELETE the Abstract in its entirety and substitute the attached new Abstract.

A training sequence is pre-filtered in a radiocommunication system having an emitter in the form of an antenna device with several antenna systems, thereby making it possible to transmit the training sequences through a pre-filter to said antenna systems side for reradiation by the emitter. Estimation enabling to form the properties of radio transmission channels described by spatial correlations is formed. Said prefilter is dimensioned according to said correlations, thereby minimizing the error value of an algorithm used for estimation the channel on a reception side.